Wetland (WL) 15-19W R043BY278WY

Site Type: Rangeland MLRA: 43B-Central Rocky Mountains

United States Department of Agriculture

Natural Resources Conservation Service

Ecological Site Description

Site Type: Rangeland

Site Name: Wetland (WL), 15-19" P.Z., Foothills and Mountains West

Site ID: R043BY278WY

Major Land Resource Area: 43B-Central Rocky Mountains

Physiographic Features

This site occurs on level or gently-sloping land near springs, seeps or sloughs.

Landform: drainageways, oxbows, and stream terraces. **Aspect:** N/A

<u>Minimum</u>	<u>Maximum</u>	
5600	8300	
0	10	(mostly <3%)
0	18	
occasional	frequent	
very brief	brief	
0	12	
frequent	frequent	
brief	very long	
negligible	high	
	5600 0 0 occasional very brief 0 frequent brief	5600 8300 0 10 0 18 occasional frequent brief 0 12 frequent frequent brief very long

Climatic Features

Annual precipitation ranges from 15-19 inches per year. Wide fluctuations may occur in yearly precipitation and result in more dry years than those with more than normal precipitation. Temperatures show a wide range between summer and winter and between daily maximums and minimums. This is predominantly due to the high elevation and dry air, which permits rapid incoming and outgoing radiation. Cold air outbreaks in winter move rapidly from northwest to southeast and account for extreme minimum temperatures. Extreme storms may occur during the winter, but most severely affect ranch operations during late winter and spring.

Prevailing winds are from the southwest, and strong winds are less frequent than over other areas of Wyoming. Occasional storms, however, can bring brief periods of high winds with gusts exceeding 50 mph.

Growth of native cool season plants begins about May 15 and continues to about August 15.

The following information is from the "Jackson" climate station:

	<u>Minimum</u>	<u>Maximum</u>	5 yrs. out of 10 between
Frost-free period (days):	12	60	July 9 – August 12
Freeze-free period (days):	42	100	June 20 – August 26

Annual Precipitation (inches): <11.98 >19.69 (2 years in 10)

Mean annual precipitation: 17.00 inches

Mean annual air temperature: 38.9°F (23.3°F Avg. Min. to 54.5°F Avg. Max.)

For detailed information visit the Natural Resources Conservation Service National Water and Climate Center at http://www.wcc.nrcs.usda.gov/cgibin/state.pl?state=wy website. Other climate stations representative of this precipitation zone include "Afton" in Lincoln County; and "Darwin Ranch" in Teton County.

Influencing Water Features

Wetland Description:	<u>System</u>	<u>Subsystem</u>	<u>Class</u>	<u>Sub-class</u>
	Palustrine	None	Emergent W	etland Persistent

Stream Type: C (Rosgen)

Representative Soil Features

The soils of this site are deep and poorly drained with a water table above the surface for part, but not all, of the growing season. They are nearly level to slightly depressional areas with poor surface drainage. Surface textures range from moderately coarse to fine, but commonly are medium and moderately fine with dark color and high organic content.

Major Soil Series correlated to this site include: Cora, Newfork, and phases of the Bear Lake, Moslander, and Tepete series.

Parent Material Kind: alluvium Parent Material Origin: mixed

Surface Texture: loam, clay loam, silty clay loam, thin peat layers common

Surface Texture Modifier: gravelly

Subsurface Texture Group: loam, clay loam, fine sandy loam, sandy clay loam

Surface Fragments ≤ 3" (% Cover): 0-20 Surface Fragments > 3" (%Cover): 0-5

Subsurface Fragments ≤ 3" (% Volume): 0-40 **Subsurface Fragments > 3" (% Volume):** 0-15

	<u>Minimum</u>	<u>Maximum</u>
Drainage Class:	very poorly	poorly
Permeability Class:	slow	moderate
Depth (inches):	20	>60
Electrical Conductivity (mmhos/cm) ≤20":	0	8
Sodium Absorption Ratio ≤20":	0	5
Soil Reaction (1:1 Water) ≤20":	6.1	8.4
Soil Reaction (0.1M CaCl2) ≤20":	5.6	7.3
Available Water Capacity (inches) <u><</u> 30":	2.25	6.0
Calcium Carbonate Equivalent (percent) ≤20":	0	15

Plant Communities

Ecological Dynamics of the Site:

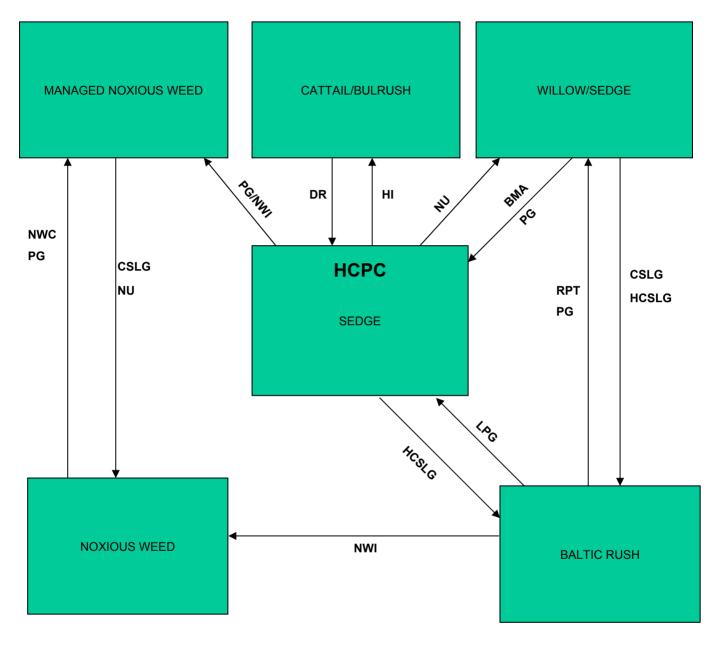
As this site deteriorates, species such as Baltic rush, and weedy forbs increase. Grasses and grass-like plants such as Nebraska sedge, bluejoint reedgrass, and tufted hairgrass will decrease in frequency and production. Willows and water birch, when present, will lose density and age diversity with heavy browsing. This site is vulnerable to noxious weed invasion by species such as Canada thistle.

The Historic Climax Plant Community (description follows the plant community diagram) has been determined by study of rangeland relic areas, or areas protected from excessive disturbance. Trends in plant communities going from heavily grazed areas to lightly grazed areas, seasonal use pastures, and historical accounts have also been used.

The following is a State and Transition Model Diagram that illustrates the common plant communities (states) that can occur on the site and the transitions between these communities. The ecological processes will be discussed in more detail in the plant community narratives following the diagram.

Site Type: Rangeland

MLRA: 43B-Central Rocky Mountains



BMA – Brush Management (all methods)

BMC - Brush Management (chemical)

BMF - Brush Management (fire)

BMM – Brush Management (mechanical)

CSP - Chemical Seedbed Preparation

CSLG - Continuous Season-long Grazing

DR - Drainage

CSG - Continuous Spring Grazing

HB - Heavy Browse

HCSLG - Heavy Continuous Season-long Grazing

HI - Heavy Inundation

LPG - Long-term Prescribed Grazing

MT – Mechanical Treatment (chiseling, ripping, pitting)

NF - No Fire

NS - Natural Succession

NWC - Noxious Weed Control

NWI - Noxious Weed Invasion

NU - Nonuse

P&C – Plow & Crop (including hay)

PG - Prescribed Grazing

RPT - Re-plant Trees

RS - Re-seed

SGD - Severe Ground Disturbance

SHC - Severe Hoof Compaction

WD - Wildlife Damage (Beaver)

WF - Wildfire

Plant Community Composition and Group Annual Production Reference Plant Community (HCPC)

-			Annı	Annual Production (Normal Year)				
COMMON NAME/GROUP NAME	SCIENTIFIC NAME	SYMBOL	L		00			
			Group	lbs./acre	% Comp.			
GRASSES AND GRASS-LIKES GRASSES/GRASSLIKES								
	Deschampsia caespitosa	DECA18	1	1200 - 1800	20 - 30			
tufted hairgrass Nebraska sedge	Carex nebrascensis	CANE2	2	1200 - 1800	20 - 30			
bluejoint reedgrass	Calamagrostis canadensis	CACA4	3	600 - 900	10 - 15			
MISC. GRASSES/GRASSLIKES	Calamagiostis canadensis	CACA	4	600 - 1200	10 - 13			
alpine timothy	Phleum alpinum	PHAL2	4	0 - 300	0 - 5			
American mannagrass	Glyceria grandis	GLGR	4	0 - 300	0-5			
baltic rush	Juncus balticus	JUBA	4	0 - 300	0-5			
Bearded wheatgrass	Elymus scribneri	ELSC4	4	0 - 300	0-5			
bentgrasses	Agrostis spp.	AGROS2	4	0 - 300	0 - 5			
big bluegrass	Poa ampla (syn. P.secunda)	POAM(POSE)	4	0 - 300	0 - 5			
blue wildrye	Elymus glaucus	ELGL	4	0 - 300	0-5			
Bulrushes	Scirpus spp.	SCIRP	4	0 - 300	0 - 5			
Cattails	Typha spp.	TYPHA	4	0 - 300	0 - 5			
inland sedge	Carex interior	CAIN11	4	0 - 300	0 - 5			
Little barley	Hordeum pusillum	HOPU	4	0 - 300	0 - 5			
Nodding brome	Bromus porteri	BRPO2	4	0 - 300	0 - 5			
Northern reedgrass	Calamagrostis stricta ssp. inexpansa	CASTI3	4	0 - 300	0 - 5			
Reed canarygrass	Phalaris arundinacea	PHAR3	4	0 - 300	0 - 5			
Rushes, other	Juncus spp.	JUNCU	4	0 - 300	0 - 5			
Sedges, other	Carex spp.	CAREX	4	0 - 300	0 - 5			
Shortawn foxtail	Alopecurus aequalis	ALAE	4	0 - 300	0 - 5			
Spikerushes	Eleocharis spp.	ELEOC	4	0 - 300	0 - 5			
tall mannagrass	Glyceria elata (syn. G. striata)	GLEL	4	0 - 300	0 - 5			
Water sedge	Carex aquatilis ssp. aquatilis	CAAQA	4	0 - 300	0 - 5			
other perennial grasses (native)		2GP	4	0 - 300	0 - 5			
FORBS	Daharanan historialas	DODIO	5	300 - 900	5 - 15			
American bistort American licorice	Polygonum bistortoides	POBI6	5	0 - 300	0-5			
	Glycyrrhiza lepidota Triglochin spp.	GLLE3 TRIGL	5 5	0 - 300 0 - 300	0 - 5 0 - 5			
arrowgrass Bedstraw	Galium spp.	GALIU	5	0 - 300	0-5			
bluebell	Mertensia spp.	MERTE	5	0 - 300	0-5			
blue-eyed grass	Sisyrinchium spp.	SISYR	5	0 - 300	0-5			
buttercup	Ranunculus spp.	RANUN	5	0 - 300	0-5			
cinquefoil (herbaceous)	Potentilla spp.	POTEN	5	0 - 300	0-5			
clover	Trifolium spp.	TRIFO	5	0 - 300	0 - 5			
cow parsnip	Heracleum maximum	HEMA80	5	0 - 300	0 - 5			
elephanthead (lousewort)	Pedicularis groenlandica	PEGR2	5	0 - 300	0 - 5			
Fireweed	Chamerion angustifolium (syn. Epilobium angustifolium)	CHAN9	5	0 - 300	0 - 5			
Gentian	Gentiana spp.	GENTI	5	0 - 300	0 - 5			
Groundsel	Packera spp.	PACKE	5	0 - 300	0 - 5			
Hawkweed	Hieracium spp.	HIERA	5	0 - 300	0 - 5			
horsetail (scouringrush)	Equisetum spp.	EQUIS	5	0 - 300	0 - 5			
Iris (Rocky Mountain)	Iris missouriensis	IRMI	5	0 - 300	0 - 5			
Mint (wild)	Mentha arvensis	MEAR4	5	0 - 300	0 - 5			
Ragwort (groundsel)	Senecio spp.	SENEC	5	0 - 300	0 - 5			
shooting star	Dodecatheon spp.	DODEC	5	0 - 300	0 - 5			
Smartweed (knotweed)	Polygonum spp.	POLYG4	5	0 - 300	0 - 5			
Sneezeweed, orange (rubberweed)	Hymenoxys spp.	HYMEN7	5	0 - 300	0 - 5			
violet	Viola spp.	VIOLA	5	0 - 300	0 - 5			
Water hemlock (spotted)	Cicuta maculata var. angustifolia	CIMAA	5	0 - 300	0-5			
waterleaf Yellow (mountain) sneezeweed	Hydrophyllum spp. Helenium autumnale	HYDRO4 HEAU	5	0 - 300	0-5			
other perennial forbs (native)	r reteriturii auturiiriale	2FP	5	0 - 300	0-5			
TREES/SHRUBS		<u> </u>	5	0 - 300	0 - 5			
willows	Salivenn	SALIX	6	300 - 600	5 - 10			
MISC. SHRUBS	Salix spp.	ONLIA	6 7	60 - 600	1 - 10			
Alpine laurel (bog kalmia)	Kalmia microphylla	KAMI	7	0 - 300	0-5			
currant	Ribes spp.	RIBES	7	0 - 300	0-5			
Dogwood	Cornus spp.	CORNU	7	0 - 300	0-5			
water birch	Betula occidentalis	BEOC2	7	0 - 300	0-5			
woods rose	Rosa woodsii var.woodsii	ROWOW	7	0 - 300	0-5			
110000	1 1000 110000011 101.110000011	1		0 - 000	J - J			

woods rose Rosa woodsii var.woodsii ROWOW 7 U-300
This list of plants and their relative proportions are based on near normal years. Fluctuations in species composition and relative production may change from year to year dependent upon precipitation or other climatic factors.

Wetland (WL) 15-19W **R043BY278WY**

MLRA: 43B-Central Rocky Mountains

Plant Community Narratives

Site Type: Rangeland

Following are the narratives for each of the described plant communities. These plant communities may not represent every possibility, but they probably are the most prevalent and repeatable plant communities. The plant composition tables shown above have been developed from the best available knowledge at the time of this revision. As more data is collected, some of these plant communities may be revised or removed, and new ones may be added. None of these plant communities should necessarily be thought of as "Desired Plant Communities". According to the USDA NRCS National Range and Pasture Handbook, Desired Plant Communities (DPC's) will be determined by the decision-makers and will meet minimum quality criteria established by the NRCS. The main purpose for including any description of a plant community here is to capture the current knowledge and experience at the time of this revision.

Sedge Plant Community (HCPC)

The interpretive plant community for this site is the Historic Climax Plant Community. This state evolved with grazing by large herbivores and is well suited for grazing by domestic livestock. Potential vegetation is estimated at 65% grasses or grass-like plants, 15% forbs, and 20% woody plants. The major grasses and grass-like plants include Nebraska sedge, tufted hairgrass, and bluejoint reedgrass. Other grasses and grass-like plants that may occur on this site include alpine timothy, tall and American mannagrass, Baltic rush, bearded wheatgrass, bentgrasses, big bluegrass, blue wildrye, inland sedge, nodding brome, northern reedgrass, and other wetland sedge species. Willows are the major woody species. Other woody species may include woods rose, bog kalmia, currant and water birch.

A typical plant composition for this state consists of Nebraska sedge 20-30%, tufted hairgrass 20-30%, bluejoint reedgrass 10-15%, other grasses and grass-like plants 10-20%, perennial forbs 5-15%, willows 5-10%, and up to 10% other woody plants. Ground cover, by ocular estimate, varies from 85-100%.

The total annual production (air-dry weight) of this state is about 6000 pounds per acre, but it can range from about 5500 lbs./acre in unfavorable years to about 7500 lbs./acre in above average years.

The following is the growth curve of this plant community expected during a normal year:

Growth curve number: WY0203

Growth curve name: 15-19W, FREE WATER SITES

Growth curve description: WL, SB, SS FREE WATER SITES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	0	0	0	10	40	30	15	5	0	0	0

(Monthly percentages of total annual growth)

The state is well adapted to the Central Rocky Mountains climatic conditions. It is a critical state providing water and habitat for the surrounding area. The diversity in plant species provides a variety of habitats for wildlife. It is resistant to drought due to a dependable water supply. This is a sustainable plant community (site/soil stability, watershed function, and biologic integrity).

Transitions or pathways leading to other plant communities are as follows:

- Heavy Inundation (flooding) will convert this plant community to the Cattail/Bulrush State.
- Nonuse will convert this plant community to the *Willow/Sedge State*.
- Heavy Continuous Season-long Grazing will convert this plant community to the Baltic Rush State.
- Noxious Weed Invasion with Prescribed Grazing will convert this plant community to the Managed Noxious Weed State.

Cattail/Bulrush Plant Community

This plant community is a result of heavy inundation or flooding conditions. Bulrushes occupy the wettest site with cattails surrounding. Willows may be present near the dryer edges of this state as well as reed canary grass.

The total annual production (air-dry weight) of this state is about 5500 pounds per acre, but it can range from about 5000 lbs./acre in unfavorable years to about 7000 lbs./acre in above average years.

The following is the growth curve of this plant community expected during a normal year:

Growth curve number: WY0203

Growth curve name: 15-19W, FREE WATER SITES

Growth curve description: WL, SB, SS FREE WATER SITES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	0	0	0	10	40	30	15	5	0	0	0

(Monthly percentages of total annual growth)

The state is stable and protected from excessive erosion. The biotic integrity of this plant community is usually intact, however forage value will decrease and wildlife values will shift toward different species. The watershed is functioning.

Transitional pathways leading to other plant communities are as follows:

• <u>Drainage</u> will result in a plant community very similar to the *Historic Climax Plant Community* (Sedge State).

Willow/Sedge Plant Community

This plant community results from nonuse. Willows increase and often will inhibit herbaceous forage availability by creating a physical barrier to livestock. Nebraska sedge, Water sedge, beaked sedge, and dogwood are often present in the protected understory.

The total annual production (air-dry weight) of this state is about 5500 pounds per acre, but it can range from about 5000 lbs./acre in unfavorable years to about 7000 lbs./acre in above average years.

The following is the growth curve of this plant community expected during a normal year:

Growth curve number: WY0203

Growth curve name: 15-19W, FREE WATER SITES

Growth curve description: WL, SB, SS FREE WATER SITES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	0	0	0	10	40	30	15	5	0	0	0

(Monthly percentages of total annual growth)

The state is very stable and protected from excessive erosion. The biotic integrity of this plant community is intact. The watershed is functioning.

Transitional pathways leading to other plant communities are as follows:

- Brush Management followed by deferment for 1 to 2 years as part of a Prescribed Grazing plan will result in a plant community very similar to the *Historic Climax Plant Community (Sedge State)*. Care should be taken when planning brush management to consider wildlife habitat and critical winter ranges.
- Heavy Continuous Season-long Grazing or Continuous Season-long Grazing will convert this plant community to the Baltic Rush State.

Wetland (WL) 15-19W R043BY278WY

Site Type: Rangeland

MLRA: 43B-Central Rocky Mountains

Managed Noxious Weed Plant Community

This plant community is the result of noxious weed control and prescribed grazing. Grazing is used as a tool to control introduced and noxious weeds by timing use during the flowering of the identified weed such as Canada thistle. Other weed control efforts such as chemical, mechanical, or biological methods are employed in conjunction with a grazing management scheme. The native plant community responds to this management by increasing in production and vigor, however it is very sensitive to any management change that allows the seed production and increase of noxious weeds such as nonuse or overuse. Noxious weeds are still present, but in smaller amounts and may be isolated to exposed or bare ground areas such as sandbars.

The total annual production (air-dry weight) of this state is about 5000 pounds per acre, but it can range from about 4000 lbs./acre in unfavorable years to about 6000 lbs./acre in above average years.

The following is the growth curve of this plant community expected during a normal year:

Growth curve number: WY0203

Growth curve name: 15-19W, FREE WATER SITES

Growth curve description: WL, SB, SS FREE WATER SITES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	0	0	0	10	40	30	15	5	0	0	0

(Monthly percentages of total annual growth)

Bare ground is minimal. The soil of this state is moderately protected. Degraded stream banks may still erode, but increased amounts of deep-rooting sedges provide adequate stability to the system. The biotic community has been compromised, but is relatively stable and at risk due to invasive plants. The watershed is functioning, but is at risk of degrading rapidly with the introduction of improper management techniques.

Transitional pathways leading to other plant communities are as follows:

 Nonuse OR Continuous Season-long Grazing will convert this plant community to the Noxious Weed State.

Baltic Rush Plant Community

This plant community evolved under heavy continuous season-long grazing by domestic livestock. Species such as Baltic rush, inland sedges, horsetails, American licorice, elephanthead, and Rocky Mountain iris often dominate this site. Introduced species such as Garrison creeping meadow foxtail, smooth brome, and clovers often invade. Willows are greatly diminished and lack a diversity of age classes.

The total annual production (air-dry weight) of this state is about 4000 pounds per acre, but it can range from about 3000 lbs./acre in unfavorable years to about 5000 lbs./acre in above average years.

The following is the growth curve of this plant community expected during a normal year:

Growth curve number: WY0203

Growth curve name: 15-19W, FREE WATER SITES

Growth curve description: WL, SB, SS FREE WATER SITES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	0	0	0	10	40	30	15	5	0	0	0

(Monthly percentages of total annual growth)

The state is vulnerable to downcutting and excessive erosion. The biotic integrity of this plant community is at risk due to the replacement of deep rooted wetland species with shallow rooted forbs and introduced species. The watershed is at risk from downcutting activity.

Transitional pathways leading to other plant communities are as follows:

- <u>Long-term Prescribed Grazing</u> will result in a plant community very similar to the *Historic Climax Plant Community (Sedge State)*.
- Replanting Trees followed by several years of rest as part of a Prescribed Grazing plan will convert this plant community to the *Willow/Sedge State*.
- Noxious Weed Invasion will convert this plant community to the Noxious Weed State.

Noxious Weed Plant Community

This plant community is the result of continuous grazing or nonuse accompanied by noxious weed invasion. Species such as Canada thistle, arrowgrass, and water hemlock dominate this state.

The total annual production (air-dry weight) of this state is about 3000 pounds per acre, but it can range from about 2000 lbs./acre in unfavorable years to about 4000 lbs./acre in above average years.

The following is the growth curve of this plant community expected during a normal year:

Growth curve number: WY0203

Growth curve name: 15-19W, FREE WATER SITES

Growth curve description: WL, SB, SS FREE WATER SITES

Ì	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	10	40	30	15	5	0	0	0

(Monthly percentages of total annual growth)

Bare ground has increased. The soil of this state is not well protected. Degraded stream banks may erode. The watershed is at risk and may produce excessive runoff. The biotic community is at risk due to invasive plants.

Transitional pathways leading to other plant communities are as follows:

 Noxious Weed Control with Prescribed Grazing will convert this plant community to the Managed Noxious Weed State.

Ecological Site Interpretations

Animal Community – Wildlife Interpretations

Sedge Plant Community (HCPC): This plant community is very important for most wildlife in the area. Over 80% of all wildlife use this site to fulfill some part of their habitat needs. It provides forage and thermal and hiding cover for mule deer, elk, and moose. It provides nesting habitat for shorebirds, songbirds, and waterfowl as well as ground nesting birds such as harriers. The lush herbaceous material produces insects for sage grouse brood rearing and foraging. Dense ground cover provides escape cover, forage, and breeding areas for small mammals which draw predators such as raptors, red fox and coyote. Other birds that would frequent this plant community include redwing blackbirds, sandhill cranes, western meadowlarks, neo-tropical migrants, and golden eagles.

Cattail/Bulrush Plant Community: This plant community may be beneficial for the same wildlife that would use the Historic Climax Plant Community. However, the plant community composition is less

diverse, and thus, less apt to meet the seasonal needs of these animals. Red-wing blackbird and sandhill crane habitat is excellent.

Willow/Sedge Plant Community: This plant community is beneficial for the same wildlife that would use the Historic Climax Plant Community. However, dominance of woody species may improve thermal and hiding cover for all species, especially structural diversity needed for neo-tropical migrants, as well as provide more foraging areas for moose.

Managed Noxious Weed Plant Community: This plant community may be beneficial for the same wildlife that would use the Historic Climax Plant Community. However, the plant community composition is less diverse, and thus, less apt to meet the seasonal needs of these animals. It may provide some foraging opportunities for sage grouse when it occurs proximal to woody cover due to enhanced insect populations.

Baltic Rush Plant Community: This plant community may be beneficial for some of the same wildlife that would use the Historic Climax Plant Community. However, the woody component is typically less productive and unable to support large browsers such as moose. As woody plants decrease, structural diversity is lost for neo-tropical migrants, cover decreased for deer and elk, and nesting for shrub-nesting birds is impacted. It may provide some brood rearing and foraging opportunities for sage grouse when it occurs proximal to woody cover.

Noxious Weed Plant Community: This plant community is less diverse, and thus, less able to meet the habitat needs of many wildlife. Herbaceous forage and cover is not as dense and will aid in successful predation of nesting birds, therefore improving habitat for predators such as raptors, red fox, and coyote. It may provide some brood rearing and foraging opportunities for sage grouse when it occurs proximal to woody cover.

	nimai Preferences (Quarterly								
GRASSES/GRASSLIKES	SCIENTIFIC NAME	SYMBOL	Cattle	Sheep	Horses	Mule Deer	Antelope	Elk	Moose
Alkali bluegrass	Poa juncifolia (syn. to P. secunda)	POJU MUAS	DDDD DDDD	PPPP DDDD	DDDD DDDD	PPPP DDDD	PPPP DDDD	DDDD DDDD	DDDD DDDD
Alkali muhly Alkali sacaton	Muhlenbergia asperifolia Sporobolus airoides	SPAI	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP	DDDD
Alpine timothy American mannagrass	Phleum alpinum Glyceria grandis	PHAL2 GLGR	PPPP DDDD	PPPP UUUU	PPPP DDDD	DDDD	UUUU	PPPP DDDD	DDDD DDDD
Baltic rush	Juncus balticus	JUBA	DDDD	UUUU	DDDD	UUUU	UUUU	DDDD	UUUU
Basin wildrye Beaked sedge	Leymus cinereus Carex rostrata	LECI4 CARO6	PPPP DDUD	PPPP UUUU	PPPP DDUD	DDDD	DDDD	PPPP DDUD	DDDD DDUD
Bearded wheatgrass	Elymus trachycaulus ssp. subsecundus	ELTRS	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP	DDDD
Bentgrass Big bluegrass	Agrostis spp. Poa ampla (syn. to Poa secunda)	AGROS2 POAM	PPPP PPPP	DDDD DDDD	PPPP PPPP	DDDD PPPP	DDDD PPPP	PPPP PPPP	DDDD PPPP
Blue wildrye	Elymus glaucus	ELGL	PPPP PPPP	DDDD PPPP	PPPP PPPP	DDDD	UUUU	PPPP PPPP	DDDD
Bluebunch wheatgrass Bluejoint reedgrass	Pseudoroegneria spicata Calamagrostis canadensis	PSSP6 CACA4	PPPP	DDDD	PPPP	DDDD UUUU	DDDD	PPPP	DDDD DDDD
Bottlebrush squirreltail Bulrush	Elymus elymoides Scirpus spp.	ELELE SCIRP	DDDD	UDUU	UDUU	UDUU	UDUU	DDDD	NNNN DDDD
California oatgrass	Danthonia californica	DACA3	PPPP	DDDD	DDDD	DDDD	DDDD	PPPP	DDDD
Canby bluegrass Cattail	Poa canbyi (syn. to Poa secunda) Typha spp.	POCA TYPHA	PPPP DUUD	DPDD DUUD	DPDD DUUD	DPDD DUUD	DPDD	PPPP DUUD	DPPD DUUD
Columbia needlegrass	Achnatherum nelsonii	ACNE9	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP	DDDD
Cusick bluegrass Dunehead sedge	Poa cusickii Carex phaeocephala	POCU3 CAPH2	PPPP UUUU						
Fowl bluegrass	Poa palustris	POPA2	DDDD						
Green needlegrass Idaho fescue	Nassella viridula Festuca idahoensis	NAVI4 FEID	DDDD DDPD	DDDD DDPD	DDDD DDPD	DDDD DDDD	DDDD DDDD	DDDD DDPD	DDDD DDDD
Indian ricegrass	Achnatherum hymenoides Distichlis spicata	ACHY DISP	PPPP UUUU						
Inland saltgrass Inland sedge	Carex interior	CAIN11	DDDD	DDDD	DDDD	UUUU	UUUU	DDDD	DDDD
Letterman needlegrass Little barley	Achnatherum lettermanii Hordeum pusillum	ACLE9 HOPU	UPUU UDUU	UDUU	UPUU UDUU	DDDD UDUU	UDUU	DDDD UDUU	UDUU
Mat muhly	Muhlenbergia richardsonis	MURI	UUUU						
Montana wheatgrass Mountain brome	Elymus albicans Bromus marginatus	ELAL7 BRMA4	DDDD PPPP	DDDD PPPP	DDDD DDDD	DDDD DDDD	DDDD NNNN	DDDD PPPP	DDDD DDDD
Mountain muhly	Muhlenbergia montana	MUMO	DDDD						
Mutton bluegrass Nebraska sedge	Poa fendleriana Carex nebrascensis	POFE CANE2	PPPP PPPP	PPPP PPPP	PPPP PPPP	PPPP PPPP	PPPP DDDD	PPPP PPPP	PPPP DDDD
Needleleaf sedge	Carex duriuscula	CADU6	UUUU						
Nodding brome Northern reedgrass	Bromus porteri Calamagrostis stricta ssp. inexpansa	BRPO2 CASTI3	PPPP PPPP	PPPP DDDD	DDDD PPPP	DDDD DDDD	UUUU	PPPP PPPP	DDDD DDDD
Nuttall's alkaligrass	Puccinellia nuttalliana	PUNU2 DAUN	PPPP DDDD	PPPP PPPP	PPPP DDDD	PPPP PPPP	PPPP DDDD	PPPP DDDD	PPPP DDDD
One-spike oatgrass Oniongrass	Danthonia unispicata Melica bulbosa	MEBU	PPPP						
Prairie junegrass Pumpelly's brome	Koeleria macrantha Bromus inermis ssp. pumpellianus	KOMA BRINP	DDDD PPPP	DDDD PPPP	DDDD	DDDD	DDDD	DDDD PPPP	DDDD
Redtop	Agrostis stolonifera	AGST2	UPDU						
Reed canarygrass Richardson's needlegrass	Phalaris arundinacea Achnatherum richardsonii	PHAR3 ACRI8	UDDU PPPP	UDDU PPPP	DDDD DDDD	UDDU DDDD	DDDD	UDDU PPPP	DDDD DDDD
Sandberg bluegrass	Poa secunda	POSE	UDDU						
Shortawn foxtail Slender wheatgrass	Alopecurus aequalis Elymus trachycaulus	ALAE ELTR7	DDDU PPPP	DDDU DDDD	DDDU PPPP	DDDU DDDD	DDDU DDDD	DDDU PPPP	DDDU DDDD
Spikefescue Spikerush	Leucopoa kingii Eleocharis spp.	LEKI2 ELEOC	PPPP UUUU	DDDD	PPPP	PPPP	DDDD	PPPP UUUU	DDDD
Spike trisetum	Trisetum spicatum	TRSP2	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP	DDDD
Sun sedge Tall mannagrass	Carex inops ssp. heliophila Glyceria elata (syn. G. striata)	CAINH2 GLEL	PPPP DDDD	DDDD	PPPP DDDD	DDDD	DDDD	PPPP DDDD	DDDD
Thickspike wheatgrass	Elymus lanceolatus ssp. lanceolatus	ELMA7	DPDD	DDDD	DDDD	DDDD	DDDD	PDDP	DDDD
Threadleaf sedge Timber oatgrass	Carex filifolia Danthonia intermedia	DAIN	DDDD DDDD	DDDD DDDD	DDDD DDDD	DDDD	DDDD	PDDP DDDD	DDDD DDDD
Tufted hairgrass	Deschampsia caespitosa	DECA18 CAAQA	PPPP UDUU	PPPP UDUU	PPPP UDUU	DDDD UDUU	DDDD UDUU	PPPP UDUU	DDDD UDUU
Water sedge Western needlegrass	Carex aquatilis ssp. aquatilis Achnatherum occidentale	ACOC3	PPPP	PPPP	PPPP	DDDD	DDDD	PPPP	DDDD
Western wheatgrass FORBS	Pascopyrum smithii	PASM	DPDD	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
American licorice	Glycyrrhiza lepidota	GLLE3	UUUU						
American bistort American vetch	Polygonum bistortoides Vicia americana	POB16 VIAM	DDDD PPPP	DDDD PPPP	DDDD PPPP	DDDD PPPP	DDDD PPPP	DDDD PPPP	DDDD DDDD
Arnica Arrowgrass	Arnica spp. Triglochin spp.	ARNIC TRIGL	UUUU TTTT	UUUU TTTT	UUUU TTTT	DDDD TTTT	UUUU TTTT	UUUU TTTT	UUUU
Asters	Eucephalus & Symphyotrichum spp.	EUCEP2/SYMPH4	UUUU						
Avens (prairie smoke)	Geum spp.	GEUM BALSA	UUUU DPDD	UUUU	UUUU	UUUU PPPP	UUUU	UUUU PPPP	UUUU
Balsamroot Bedstraw	Balsamorhiza spp. Galium spp.	GALIU	UUUU	DDDD	UUUU	DDDD	DDDD	DDDD	UUUU
Biscuitroot Bitterroot	Lomatium spp. Lewisia rediviva ssp. rediviva	LOMAT LERER	DDDD	DDDD	UUUU	DDDD	DDDD	DDDD	DDDD
Bluebell	Mertensia spp.	MERTE	DDDD						
Blue-eyed grass Buckwheat	Sisyrinchium spp. Eriogonum spp.	SISYR ERIOG	UUUU	DDDD	UUUU	UUUU	UUUU	UUUU	UUUU
Buttercup	Ranunculus spp.	RANUN	DDDD						
Cinquefoil (herbaceous) Clover	Potentilla spp. Trifolium spp.	POTEN TRIFO	UUUU PPPP	UUUU PPPP	UUUU PPPP	UUDU PPPP	UUUU PPPP	UUUU PPPP	UUUU PPPP
Columbine Cow parsnip	Aquilegia spp. Heralcleum maximum	AQUIL HERAC	DDDD PPPP	DDDD PPPP	DDDD PPPP	DDDD PPPP	DDDD PPPP	DDDD DDDD	DDDD NNNN
Daisy	Townsendia spp.	TOWNS	UUUU						
Deathcamas Elephanthead lousewort	Zigadenus venenosus Pedicularis groenlandica	ZIVE PEGR2	UUUU	DDDD	TTTT	DDDD	TTTT	TTTT	DDDD
Elk thistle	Cirsium foliosum	CIFO	UUDU	UUUU	UDPU	UDDU	UUUU	UDPU	UUUU
Evening-primrose Fireweed	Oenothera spp. Chamerion angustifolium	OENOT CHAN9	UUUU PPPP	DDDD	UUUU	UUUU PPPP	DDDD	UUUU PPPP	UUUU PPPP
Flax	Linum spp.	LINUM	UPDU						
Fleabane Gentian	Erigeron spp. Gentiana spp.	ERIGE2 GENTI	DDDD						
Geranium	Geranium spp.	GERAN	UUUU						
Gilia Goldenaster	Gilia spp. Heterotheca spp.	GILIA HETER8	UUUU						
Goldenpea Goldenrod	Thermopsis spp.	THERM SOLID	UUUU						
Golden smoke	Solidago spp. Corydalis aurea	COAU2	TTUU						
Goldenweed, stemless	Stenotus acaulis ssp. acaulis Frasera speciosa	STACA FRSP	DDDD	DDDD	DDDD	UUUU DDDD	DDDD	DDDD	UUUU DDDD
Green gentian Groundsel	Packera spp.	PACKE	UUUU						
Harebell (bellflower) Hawksbeard	Campanula spp. Crepis spp.	CAMPA CREPI	UUUU	UUUU PPPP	UUUU	UUUU DDDD	UUUU DDDD	UUUU	UUUU DDDD
Hawkweed	Hieracium spp.	HIERA	UUUU						
Horsemint Horsetail (scouring rush)	Agastache spp. Equisetum spp.	AGAST EQUIS	DDDD	DDDD	UUUU	DDDD	DDDD	DDDD	DDDD
Iris (Rocky Mountain)	Iris missouriensis	IRMI	UUUU						
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COMMON NAME/GROUP NAME	SCIENTIFIC NAME	SYMBOL	Cattle	Sheep	Horses	Mule Deer	Antelope	Elk	Moose
Larkspur (poisonous in spring before flowering) Little sunflower	Delphinium spp. Helianthus pumilus	DELPH HEPU3	DTDD PPPP						
Locoweed	Oxytropis spp.	OXYTR	TTUU						
Lupine (may be poisonous after seedpots mature)	Lupinus spp.	LUPIN	DDTT	DDTT	DDTT	DDTT	DDTT PPPP	DDTT	DDTT PPPP
Meadow-rue Milkvetch	Thalictrum occidentale Astragalus spp.	THOC ASTRA	DDDD	PPPP DDDD	DDDD	PPPP DDDD	DDDD	DDDD DDDD	DDDD
Minerscandle	Cryptantha spp.	CRYPT	UUUU						
Mint (wild)	Mentha arvensis	MEAR4 MIMUL	UUUU	UDUU	UUUU UDUU	UUUU UDUU	UUUU UDUU	UUUU	UUUU
Monkeyflower Monkshood	Mimulus spp. Aconitum spp.	ACONI	TTTT						
Mountain dandelion	Agoseris spp.	AGOSE	DDDD	PPPP	DDDD	PPPP	DDDD	DDDD	DDDD
Mule-ears Mustard	Wyethis amplexicaulis Draba spp.	WYAM DRABA	UUUU						
Nailwort	Paronychia spp.	PARON	UUUU						
Onion (wild)	Allium spp.	ALLI4	DPDD	PPPP	DPDD	DPDD	PPPP	DPDD	DPDD
Oregon grape Owl's-clover	Mahonia repens Orthocarpus spp.	MARE11 ORTHO	UUUU	UUUU	UUUU	PPPP UUUU	DDDD	DDDD	DDDD
Paintbrush	Castilleja spp.	CAST	DDDD						
Peavine	Lathyrus spp.	LATHY	DDDD						
Penstemon Phacelia	Penstemon spp. Phacelia spp.	PENST PHACE	PPPP DDDD						
Phlox	Phlox spp.	PHLOX	UUUU						
Plantain	Plantago spp.	PLANT	UUUU						
Primrose Pussytoes	Primula spp. Antennaria spp.	PRIMU ANTEN	UUUU						
Ragwort (groundsel)	Senecio spp.	SENEC	TTTT						
Sandwort	Arenaria spp.	ARENA	UUUU						
Shooting star Starwort	Dodecatheon spp. Stellaria spp.	DODEC STELL	DDDD	DDDD	UUUU	DDDD	UUUU	UUUU	UUUU
Sego lily	Calochortus nuttallii	CANU3	UUUU						
Smartweed (knotweed)	Polygonum spp.	POLYG4	UUUU	UUUU	UUUU	DDDD	UUUU	UUUU	UUUU
Sneezeweed, orange (rubberweed) Springbeauty	Hymenoxys spp. Claytonia spp.	HYMEN7 CLAYT	UDUU						
Stinging nettle	Urtica dioica	URDI	UUUU						
Stonecrop	Sedum spp.	SEDUM	UUUU						
Stoneseed Sunflower	Lithospermum spp. Helianthus spp.	LITHO3 HELIA3	UUUU PPPP	PPPP	UUUU PPPP	UUUU PPPP	PPPP	UUUU PPPP	UUUU PPPP
Sweetroot	Osmorhiza spp.	OSMOR	DDDD						
Toadflax	Comandra umbellata Valeriana spp.	COUMP VALER	DDDD	UUUU PPPP	DDDD	DDDD	DDDD	DDDD	DDDD
Valerian (tobacco root) Violet	Viola spp.	VIOLA	DDDD						
Water hemlock (spotted)	Cicuta maculata var. angustifolia	CIMAA	TTUU						
Waterleaf Western coneflower	Hydrophyllum spp. Rudbeckia occidentalis	HYDRO4 RUOC2	DDDD	DDDD	DDDD	PPPP UUUU	DDDD	DDDD	DDDD
Wild strawberry (false strawberry)	Fragaria vesca	FRVE	DDDD	PPPP	DDDD	PPPP	PPPP	DDDD	DDDD
Yarrow (common & western)	Achillea millefolium	ACMI2	UUUU						
Yellowbell Yellow sneezeweed	Fritillaria pudica Helenium autumnale	FRPU2 HEAU	TTTT	DUUU	TTTT	DUUU	TTTT	DUUU	TTTT
TREES, SHRUBS & HALF-SHRUBS	Troisman adaminate	112.10							
Alpine laurel (bog kalmia)	Kalmia microphylla	KAMI	TTTT						
Antelope bitterbrush Aspen	Purshia tridentata Populus tremuloides	PUTR2 POTR5	PPPP DDDD	PPPP DDDD	DDDD	PPPP PPPP	PPPP DDDD	PPPP PPPP	PPPP PPPP
Basin big sagebrush	Artemesia tridentata ssp. tridentata	ARTRT	UUUU						
Big sagebrush	Artemisia tridentata	ARTR2 ARNO4	DUUD	DDDD PPPP	UUUU	PPPP DDDD	PPPP DDDD	DDDD DDDD	DDDD DDDD
Black sagebrush Chokecherry (toxic in large amounts)	Artemesia nova Prunus virginiana	PRVI	DTTD	DTTD	DDDD	PPPP	UUUU	DDDD	PPPP
Currant	Ribes spp.	RIBES	DDDD	DDDD	DDDD	PPPP	UUUU	DDDD	DDDD
Dogwood Early (alkali) ange	Cornus spp. Artemisia arbuscula ssp. longiloba	CORNU ARARL	DDDD	DPDD	DDDD	DPDD PUPP	DDDD PDDP	DPDD DUUD	DPDD UUUU
Early (alkali) sage Elderberry	Sambucus spp.	SAMBU	DDDD	DDDD	UUUU	PPPP	UUUU	DDDD	DDDD
Fringed sagewort	Artemisia frigida	ARFR4	UUUU	UUUU	UUUU	UUUU	DDDD	UUUU	UUUU
Goldenweed, shrubby	Ericameria suffruticosus	ERSU13 SAVE4	DUUD	DDDD	UUUU	DDDD	DDDD	DUUD	UUUU
Greasewood (toxic in large amounts) Green (low) rabbitbrush	Sarcobatus vermiculatus Chrysothamnus viscidiflorus	CHVI8	UUUU						
Juniper, common	Juniperus communis var. depressa	JUCOD	UUUU	UUUU	UUUU	DUUD	UUUU	UUUU	UUUU
Juniper, Rocky Mountain Limber pine	Juniperus scopulorum Pinus flexilis	JUSC2 PIFL2	NNNN	DUDD	UUUU NNNN	DUDD	UUUU NNNN	NNNN	NNNN
Low sagebrush	Artemisia arbuscula ssp. arbuscula	ARAR8	DUUD	DDDD	UUUU	DDDD	DDDD	DDDD	DDDD
Mountain big sagebrush	Artemesia tridentata ssp. vaseyana	ARTRV	UUUU	DDDD	UUUU	DDDD	DDDD	UUUU	UUUU
Mountain mahogany Raspberry	Cercocarpus spp. Rubus idaeus	CERCO RUID	PPPP UUUU	PPPP UUUU	DDDD	PPPP DDDD	UUUU	PPPP UUUU	PPPP DDDD
Rubber rabbitbrush	Ericameria nauseosa	ERNA10	UUUU	PPPP	UUUU	DDDD	PPPP	DDDD	DDDD
Serviceberry	Amelanchier alnifolia	AMAL2	DDDD	PPPP	UUUU	PPPP	DDDD	DDDD	DDDD
Shrubby cinquefoil Silverberry	Dasiphora floribunda Elaeagnus commutata	DAFL3 ELCO	DDUU	DDDD	UUUU	DDUU	DDDD	DDUU	UUUU PPPP
Silver sagebrush	Artemisia cana	ARCA13	UUUU	DDDD	UUUU	PPPP	PPPP	DDDD	DDDD
Snowberry (western)	Symphoricarpus occidentalis	SYOC	UUUU	UUUU	UUUU	DDDD	UUUU	UUUU	UUUU
Snowbrush ceanothus Spiked big sagebrush	Ceanothus velutinus Artemesia tridentata ssp. spiciformis	CEVE ARTRS2	UUUU	DDDD	UUUU	DDDD	UUUU	DDDD	UUUU
Thimbleberry	Rubus parviflorus	RUPA	UUUU	DDDD	UUUU	UDUU	UUUU	UDUU	DPDD
Three-tip sagebrush	Artemisia tripartitia	ARTR4	UUUU	DDDD	UUUU	UUUU	DDDD	UUUU	DDDD
True mountainmahogany Water birch	Cercocarpus montanus Betula occidentalis	CEMO2 BEOC2	PPPP DDDD	PPPP DDDD	DDDD DDDD	PPPP DDDD	DDDD	PPPP DDDD	PPPP DDDD
Wild rose	Rosa woodsii var. woodsii	ROWOW	DDDD	DDDD	UUUU	DDDD	DDDD	DDDD	DDDD
Willow, Bebbs Willow, Blueberry	Salix bebbiana Salix myrtillifolia	SABE2 SAMY	DDDD DDDD	PPPP PPPP	DDDD	PPPP PPPP	DDDD	DDDD	PPPP PPPP
Willow, Booths	Salix myrtilliolia Salix boothii	SABO2	DDDD	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP
Willow, coyote (sandbar)	Salix exigua	SAEX	PPPP	PPPP	DDDD	PPPP	UUUU	PPPP	PPPP
Willow, Drummonds Willow, grayleaf	Salix drummondiana Salix glauca	SADR SAGL	DDDD	PPPP PPPP	DDDD	PPPP PPPP	DDDD	DDDD DDDD	PPPP PPPP
Willow, Geyers	Salix geyeriana	SAGE2	DDDD	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP
Willow, Lemmons	Salix lemmonii	SALE	DDDD	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP
Willow, peachleaf Willow, planeleaf (diamondleaf)	Salix amygdaloides Salix planifolia	SAAM2 SAPL2	PPPP DDDD	PPPP PPPP	DDDD DDDD	PPPP PPPP	DDDD	PPPP DDDD	PPPP PPPP
Willow, pussy	Salix discolor	SADI	DDDD	DDDD	DDDD	DDDD	UUUU	DDDD	DDDD
Willow, Scoulers	Salix scouleriana	SASC	PPPP DDDD	PPPP PPPP	DDDD DDDD	PPPP PPPP	DDDD DDDD	PPPP DDDD	PPPP PPPP
Willow, short-fruit (barrenground) Willow, tweedy	Salix brachycarpa Salix tweedyi	SABR SATW	DDDD	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP
Willow, whiplash	Salix lucida ssp. Caudata	SALUC	DDDD	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP
					DDDD	PPPP	DDDD		PPPP
Willow, interior	Salix interior	SAIN3	DDDD	PPPP				DDDD	
Willow, wolf	Salix wolfii	SAWO	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU	DDDD

N = not used; U = undesirable; D = desirable; P = preferred; T = toxic

Site Type: Rangeland

MLRA: 43B-Central Rocky Mountains

Animal Community – Grazing Interpretations

The following table lists suggested stocking rates for cattle under continuous season-long grazing under normal growing conditions. These are conservative estimates that should be used only as guidelines in the initial stages of the conservation planning process. Often, the current plant composition does not entirely match any particular plant community (as described in this ecological site description). Because of this, a field visit is recommended, in all cases, to document plant composition and production. More precise carrying capacity estimates should eventually be calculated using this information along with animal preference data, particularly when grazers other than cattle are involved. Under more intensive grazing management, improved harvest efficiencies can result in an increased carrying capacity. If distribution problems occur, stocking rates must be reduced to maintain plant health and vigor.

Plant Community	Production (lb./ac)	Carrying Capacity* (AUM/ac)	
Sedge (HCPC)	5500-7500	2.0	
Cattail/Bulrush	5000-7000	1.8	
Willow/Sedge	5000-7000	1.7	
Managed Noxious Weed	4000-6000	1.6	
Baltic Rush	3000-5000	1.3	
Noxious Weed	2000-4000	.9	

^{* -} Continuous, season-long grazing by cattle under average growing conditions.

Grazing by domestic livestock is one of the major income-producing industries in the area. Rangeland in this area may provide yearlong forage for cattle, sheep, or horses. During the dormant period, the forage for livestock use needs to be supplemented with protein because the quality does not meet minimum livestock requirements.

Hydrology Functions

Climate is the principal factor limiting forage production on this site. This site is dominated by soils in hydrologic group D. Infiltration rate is very slow and runoff potential high for the soils of this site due to a high water table and saturated soil conditions. However, high forage production on this site diminishes runoff potential as long as site is managed for maintaining adequate residual vegetation. (Refer to Part 630, NRCS National Engineering Handbook for detailed hydraulic information).

Rills and gullies should not typically be present. Water flow patterns may be present if associated with a perennial flowing stream. Litter typically falls in place, and signs of movement are not common unless associated with a perennial flowing stream. Chemical and physical crusts are rare to non-existent.

Recreational Uses

This site provides a variety of hunting and fishing opportunities as well providing popular camping areas for recreationists when not saturated. Waterfowl hunting opportunities exist when associated with open water. The wide variety of plants which bloom from spring until fall have esthetic values that appeal to visitors.

Wood Products

No appreciable wood products are present on the site.

Other Products

Supporting Information

Associated Sites

Subirrigated R043BY274WY Saline Subirrigated R043BY242WY

Similar Sites

R034AY278WY – Wetland (WL) 10-14W has lower production. R043BY274WY – Subirrigated (Sb) 15-19W has a lower water table and lower production.

Inventory Data References (narrative)

Information presented here has been derived from NRCS clipping data and other inventory data. Field observations from range trained personnel were also used. Those involved in developing this site include: Bill Christensen, Range Management Specialist, NRCS; Karen Clause, Range Management Specialist, NRCS; and Everet Bainter, Range Management Specialist, NRCS. Other sources used as references include: USDA NRCS Water and Climate Center, USDA NRCS National Range and Pasture Handbook, and USDA NRCS Soil Surveys from various counties.

Inventory Data References

<u>Data Source</u>	Number of Records	Sample Period	<u>State</u>	<u>County</u>
SCS-RANGE-417	58	1966-1986	WY	Lincoln & others

State Correlation

Type Locality

Field Offices

Lyman, Cokeville, Afton, Jackson, Pinedale

Relationship to Other Established Classifications

Other References

Site Description Approval

State Range Management Specialist	Date